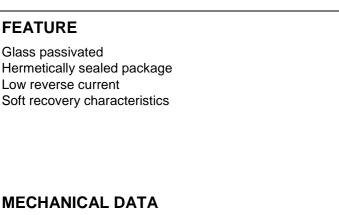
1N5617

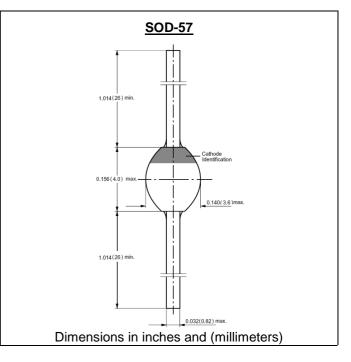
SINTERED GLASS JUNCTION FAST AVALANCHE RECTIFIER

VOLTAGE: 400V





Case: SOD-57 sintered glass case Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C Polarity: color band denotes cathode end Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CURRENT: 1.0A

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

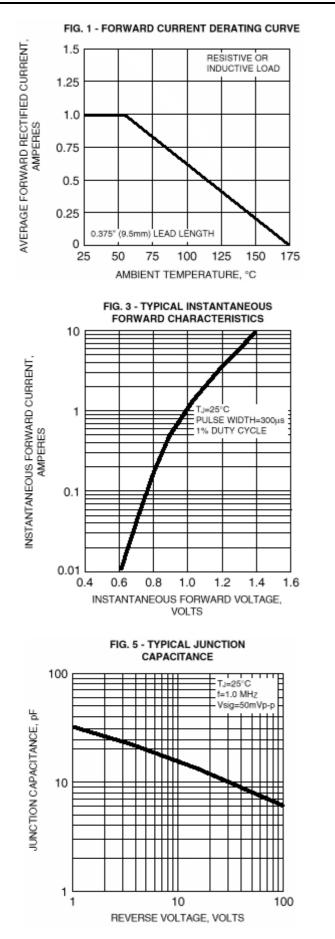
		SYMBOL	1N5617	units
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	400	V
Maximum RMS Voltage		V _{RMS}	280	V
Maximum DC blocking Voltage		V _{DC}	400	V
Maximum Reverse Breakdown Voltage	I _R =50μΑ	V _{BR}	440	V
Maximum Average Forward Rectified Curre length at Ta=55 $^\circ\!\!\mathbb{C}$	ent 3/8"lead	I _{FAV}	1.0	А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load		I _{FSM}	25	A
Maximum Forward Voltage at Forward Current 3.0A and 25 $^\circ\!\mathrm{C}$		V _F	1.6	V
Maximum DC Reverse Current at rated DC blocking voltage	Ta =25℃ Ta =100℃	I _R	1.0 25.0	μΑ
Maximum Reverse Recovery Time	(Note 1)	Trr	150	nS
Typical Junction Capacitance	(Note 2)	Cj	35.0	pF
Typical Thermal Resistance	(Note 3)	Rth(ja)	45.0	°C /W
Storage and Operating Junction Temperature		Tstg, Tj	-65 to +175	°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

2. Measured at 1.0 MHz and applied reverse voltage of 12.0Vdc

3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted



RATINGS AND CHARACTERISTIC CURVES 1N5617

25

0.01

0

20

TJ=TJ max. 8.3ms SINGLE HALF SINE-WAVE PEAK FORWARD SURGE CURRENT, AMPERES (JEDEC Method) 20 15 10 5 0 100 1 10 NUMBER OF CYCLES AT 60 Hz FIG. 4 - TYPICAL REVERSE CHARACTERISTICS 20 INSTANTANEOUS REVERSE LEAKAGE CURPENT, MICROAM-PERES 10 TJ=125°C 1 TJ=78 С 0.1 T_{1-2}

FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

100 PERCENT OF RATED PEAK REVERSE VOLTAGE, %

60

80

40

Rev.A1

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